Open Access Community Broadband Network Northern New Mexico
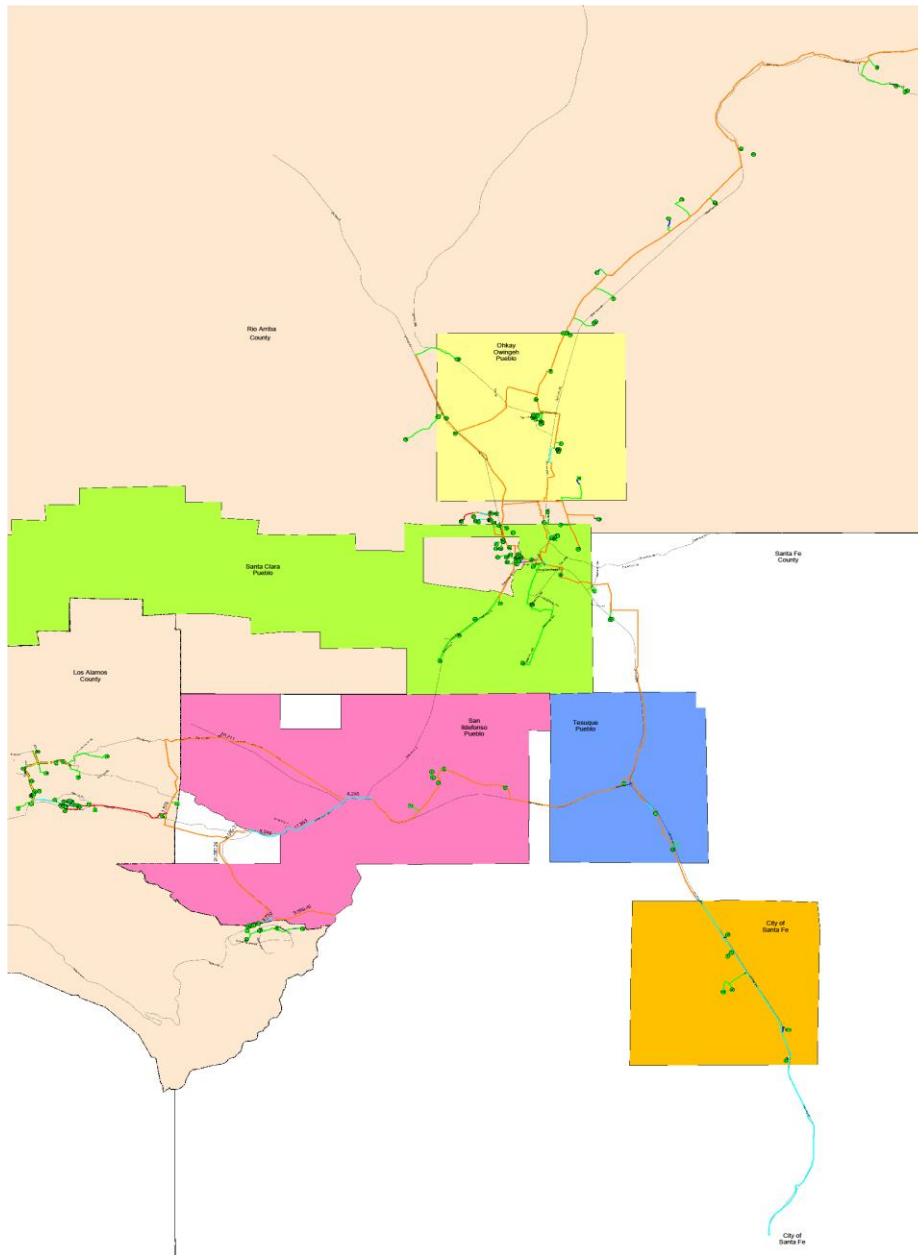
GENERAL NETWORK INFORMATION UPDATE

SCIENCE, TECHNOLOGY AND TELECOMMUNICATIONS COMMITTEE

JULY 7, 2015

Background

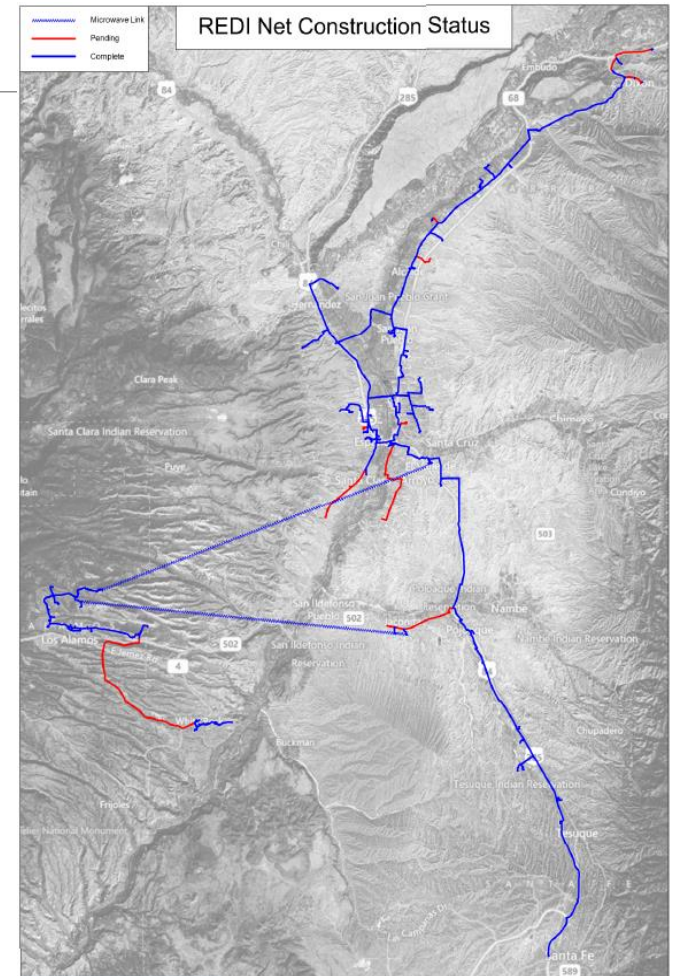|	
2007	A regional economic development plan was developed for Northern New Mexico which identified high-speed broadband as a priority.
2008	Federal funding for broadband became available through the American Recovery and Reinvestment Act.
2009-10	Local and tribal governments in Northern New Mexico worked together to submit applications for broadband funding.
Aug 2010	$10.6 million grant to construct REDI NET--a broadband network for Northern New Mexico. Project cost = $13.5 mm leverage additional $60+ mm for north central New Mexico region. Leverage = $, community partnerships, local resources
June 2011 – September 2013	Construction began on the REDI Net project and concluded September 2013. 140+miles of fiber with Point Of Presence facilities (major interconnects). Joint Powers Agreement (JPA) adopted
2014 - Present	Grant close out. Operations of network begun and provision of services to community anchor institutions and ISPs (las mile service providers). Development and alignment of network integration to support opportunities for public safety, education, health care and economic development.

Coverage area:

- ❖ Northern New Mexico

- ❖ Interconnects with Kit Carson Electric Coop

- ❖ 140+miles of fiber built

- ❖ Primarily traditional, tribal and rural communities

- ❖ Spans currently 4 local and 4 tribal governments geographic area

- ❖ National lab and urban areas

CURRENT status

(picture: REDI Net Ribbon Cutting 8/16/2013 Senator Tom Udall and Congressman Ben R. Lujan in attendance)

❑ Initial network construction completed

❑ Network operational effective 2/1/13

❑ ~ 70 institutions active; 9 ISPs approved

❑ Developing asset management, network expansion and sector alignments—public safety, education, health care and economic development

REDI Net: focus

1 High-Speed Broadband Network

2 Community Owned and Managed

3 Middle Mile Backbone--*Connects institutions and providers*

4 Open Access--*Choice of providers for homes and businesses*

Community approach—operational stage

✓**Education**

✓**Economic Development**

✓**Health Care**

✓**Public Safety**

✓**Water Resources Management**

✓**Energy Development**

✓**Technology Transfer**

✓**Innovation**

Long term sustainability

❖ Planning and Assessment

❖ Asset Management

❖ Partnerships

❖ Innovation

Long term sustainability—partnerships

❖Existing public and private partnerships:

- City of Espanola
- Los Alamos County
- North Central NM Economic Dev. District (State)
- Pueblo of Ohkay Owingeh
- Pueblo of Pojoaque
- Pueblo of Santa Clara
- Pueblo of Tesuque
- Rio Arriba County
- Santa Fe County
- Pueblo of San Ildefonso
- Kit Carson Electric Coop
- Jemez Mountains Electric Coop
- Plateau Telecommunications Coop
- DOE/Los Alamos National Lab
- Northern New Mexico College
- State of New Mexico Department of Information Technology (DOIT)

❖Recognize capacity and seek complementary partnerships:

- University of New Mexico
- Bureau of Reclamation
- Other local, tribal, state, federal agencies
- Private sector partnerships

Long term sustainability— innovation

❖Existing baseline activities
  ❖ISP
  ❖Community Anchor Institutions

❖Pro forma and performance

❖Enterprise approach and innovation:
  ❖Sustainable business model—emphasis on tele-health, education, public safety and economic development
    ❖Reinvestment
  ❖Collaborations and integration with other infrastructure—civil, social and green/natural

FY16 Work Plan and Current Efforts--highlights

Public Safety

❖Participation with First Net/DoIT

❖Assist tribal and local jurisdictions in assessment and development of resources/strategies

Education

❖ Collaboration with NM Public School Facilities Authority

❖ Enhance coordination with Higher Ed partners. local and tribal entities to leverage potential investment and network development

Healthcare

❖Further coordination with telehealth and telemedicine

❖Continue work with NM Broadband Program on asset assessment

Economic Development

❖Continue to work with state stakeholders to address ongoing gaps and investment, including participation with interim jobs council

❖Assist local and regional communities in broadband service offerings, including active participation with ISPs

Outreach

❖Increase activities in outreach

Other:

❖PRC broadband task force

❖Managed services as potential offering

Discussion & Questions

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Thank You!

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